

## STORAGE TANK SPECIFICATIONS

**General:** The storage tank will be used for storing 45-50% potassium hydroxide (caustic potash). The tank will be located in Auburn, Alabama. It will be outdoors and exposed to direct sunlight, rain etc. The tank and all accessories attached to the tank must meet the specifications listed below, must be suitable for outdoor use and must be compatible with 45-50% potassium hydroxide.

**Material:** Double walled tank made of cross-linked polyethylene with uniform wall thickness and cure throughout vessel that meets or exceeds the latest ASTM D-1998 standards. Inner tank dome must overlap outer tank sidewall to prevent rain, snow and debris from entering the secondary containment space.

**Specific gravity rating:** 1.9 minimum

**Capacity:** 5000 gallons minimum

**Access opening:** 16 inches minimum with lockable lid

**Venting:** Inverted U vent with a minimum diameter of 4 inches including all gaskets, fittings and mounting hardware

**Level indicator:** Reverse float level device including all gaskets, fittings and mounting hardware

**Tie downs:** Wind load restraint system including all brackets, cables/straps etc. needed to secure tank

**Leak detection:** Must have a leak detection system between the walls of the primary inner tank and the secondary containment tank to monitor for leakage

**Fill line:** Two inch diameter schedule 80 fill line that enters at the top of tank. The tank truck end of the fill line should be 36-40 inches above ground level and fitted with a manual ball valve and Kamlok connector with cap.

**Outlets:** The tank must be equipped with a 2 inch top discharge assembly with a foot valve. The tank must also have a spare 2 inch polypropylene bulkhead with same gasket.

**Shipping instructions:** Vendor must instruct shipper to notify personnel at receiving point the approximate time of delivery so that the necessary equipment and operator will be available to unload the finished tank.